Performance Data Sheet

RKA5510EXV

General Information

Model	RKA5510EXV	**Refrigerant**	R-22
Test Condition	ASHRAE	**Performance Test Voltage**	265V ~ 60HZ
Return Gas	18.3°C (65°F) RETURN GAS	**Motor Type**	PSC

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-15	Btu/h	3790	3560					
	Watts	489	518					
	Amps	1.63	1.77					
	Lb/h	48.7	47.7					
-10	Btu/h	4190	3940	3690				
	Watts	490	522	559				
	Amps	1.66	1.82	2.00				
	Lb/h	53.6	52.4	51.3				
-5	Btu/h	4660	4380	4120	3860			
	Watts	493	529	569	615			
	Amps	1.70	1.87	2.06	2.27			
	Lb/h	59.3	58.0	56.8	55.6			
0	Btu/h	5210	4900	4610	4320	4050		
	Watts	498	537	581	630	683		
	Amps	1.73	1.92	2.13	2.35	2.59		
	Lb/h	65.8	64.5	63.1	61.8	60.6		
5	Btu/h	5830	5500	5170	4850	4550		
	Watts	504	547	594	646	703		
	Amps	1.77	1.98	2.20	2.43	2.68		
	Lb/h	73.2	71.8	70.3	68.9	67.6		
10	Btu/h	6520	6160	5800	5460	5110	4780	4450
	Watts	513	558	609	664	724	788	856
	Amps	1.81	2.03	2.26	2.51	2.77	3.04	3.33
	Lb/h	81.4	79.9	78.4	76.9	75.4	74.0	72.7
15	Btu/h	7290	6900	6510	6120	5750	5380	5010
	Watts	522	570	624	682	745	812	883
	Amps	1.85	2.09	2.33	2.59	2.86	3.14	3.44
	Lb/h	90.4	88.9	87.3	85.7	84.1	82.5	81.1
20	Btu/h	8130	7700	7280	6860	6450	6040	5630
	Watts	532	583	639	700	766	836	911
	Amps	1.89	2.14	2.40	2.67	2.95	3.24	3.55
	Lb/h	100	98.7	97.0	95.3	93.6	91.9	90.4

25	Btu/h	9040	8580	8120	7670	7210	6760	6310
	Watts	543	596	655	719	788	861	938
	Amps	1.93	2.19	2.47	2.75	3.04	3.34	3.65
	Lb/h	111	109	107	106	104	102	101
30	Btu/h	10000	9540	9040	8540	8040	7550	7060
	Watts	554	610	671	737	809	884	965
	Amps	1.96	2.25	2.53	2.82	3.12	3.43	3.75
	Lb/h	122	121	119	117	115	113	111
35	Btu/h	11100	10600	10000	9480	8940	8400	7870
	Watts	565	623	687	755	829	907	990
	Amps	2.00	2.30	2.60	2.90	3.21	3.52	3.85
	Lb/h	134	133	131	129	127	125	123
40	Btu/h	12200	11700	11100	10500	9900	9320	8730
	Watts	576	636	702	773	849	929	1010
	Amps	2.04	2.35	2.66	2.97	3.29	3.61	3.94
	Lb/h	147	146	144	142	140	138	136
45	Btu/h	13400	12800	12200	11600	10900	10300	9670
	Watts	586	648	716	789	867	950	1040
	Amps	2.08	2.40	2.72	3.05	3.37	3.70	4.04
	Lb/h	161	159	157	155	153	151	149
50	Btu/h	14700	14100	13400	12700	12000	11300	10700
	Watts	596	660	729	804	884	969	1060
	Amps	2.11	2.45	2.78	3.11	3.45	3.78	4.13
	Lb/h	175	174	172	170	168	166	163
55	Btu/h	16100	15400	14600	13900	13200	12500	11700
	Watts	604	670	741	818	899	986	1080
	Amps	2.15	2.49	2.84	3.18	3.52	3.86	4.21
	Lb/h	190	189	187	185	183	181	178

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	7.794201E+03	3.716519E+02	3.965338E-01	7.266941E+01
C2	1.486647E+02	-3.461545E+00	-2.987411E-02	1.417760E+00
C3	-3.280041E+01	-7.327693E-01	1.700086E-02	-1.179288E-03
C4	1.775097E+00	5.952075E-02	8.017797E-05	1.502688E-02
C5	-2.827346E-01	5.168124E-02	5.910814E-04	1.000640E-03
C6	-8.683618E-03	3.110631E-02	-3.191797E-05	-1.509730E-03
C7	-1.581024E-04	-3.646683E-04	-4.228746E-07	-1.762463E-05
C8	-3.694062E-03	-3.214967E-04	-6.626961E-07	2.171551E-05
C9	-1.478262E-03	7.972291E-05	-1.582472E-06	-1.622541E-05
C10	1.807948E-04	-2.819691E-05	3.520143E-07	5.678109E-06

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature